



Etter 4

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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For: Walter Etter

Title: NOISE COMPENSATION METHODS

AND SYSTEMS FOR INCREASING

THE CLARITY OF VOICE

COMMUNICATIONS

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ASSISTANT COMMISSIONER FOR PATENTS BOX NON-FEE AMENDMENT Washington, D.C. 20231

PRELIMINARY AMENDMENT

Dear Sir/Madam:

Kindly correct page 17, paragraph 51 as follows:

FIGS. 5-7 depict embodiments of the compressor gain unit 300 and limiter gain unit 500 shown in FIG. 3. More to the point, FIG. 5 depicts curves which may be used by the compressor and limiter gain units 300,500 to operate in an "output-bounded" mode while FIGS. 6-7 depict curves used by units 300,500 to operate in an "input-output-bounded" mode. Like the input-bounded mode illustrated in FIG. 4, the output-bounded mode shown in FIG. 5 comprises a curve ("AA") associated with a linear range a_4 and compression range a_5 and a curve ("BB") associated with a linear $[b_3]$ $\underline{b_4}$, compressor $[b_4]$ $\underline{b_5}$, and limiter range $[b_5]$ $\underline{b_6}$. Unlike the input-bounded mode, the output-bounded mode does not comprise a



linear-limiter curve (curve C shown in FIG. 4). This means that companders operating in accordance with the curves in FIG. 5 are always adapted to operate in a compression range which results in a low amount of noise compensation in high-level noise conditions.

These corrections were made to conform the specification to FIG. 5. No new matter has been added. A clean copy of paragraph 51 is attached at the end of this Amendment.

No fee is believed to be due. However, in the event of non-payment or improper payment of a required fee, the Commissioner is authorized to charge or to credit **Deposit** Account No. 501735 as required to correct the error.

Should there be any questions, please call the undersigned.

Respectfully submitted,

John E. Curtin, Reg. No. 37,602 Attorney for Applicant

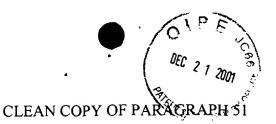
Troutman Sanders LLP

1660 International Drive, Suite 600

McLean, Virginia 22102

(703) 734-4356

Date: December 21, 2001





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FIGS. 5-7 depict embodiments of the compressor gain unit 300 and limiter gain unit 500 shown in FIG. 3. More to the point, FIG. 5 depicts curves which may be used by the compressor and limiter gain units 300,500 to operate in an "output-bounded" mode while FIGS. 6-7 depict curves used by units 300,500 to operate in an "input-output-bounded" mode. Like the input-bounded mode illustrated in FIG. 4, the output-bounded mode shown in FIG. 5 comprises a curve ("AA") associated with a linear range a4 and compression range a5 and a curve ("BB") associated with a linear b4, compressor b5, and limiter range b6. Unlike the input-bounded mode, the output-bounded mode does not comprise a linear-limiter curve (curve C shown in FIG. 4). This means that companders operating in accordance with the curves in FIG. 5 are always adapted to operate in a compression range which results in a low amount of noise compensation in high-level noise conditions.